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About Me

Hi! I am a Ph.D. student of Computer Architecture at Wuhan
National Laboratory for Optoelectronics, Huazhong University
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Research Interest

Magnetic Recording, Signal Processing in Communication, Information Theory
and Coding Technology, and Machine Learning

Publications

[1] **Ke Luo**, Shaobing Wang, Kheong Sann Chan, Wei Chen, Jincai Chen,
Ping Lu, Weiming Cheng. *A Study on Block-Based Neural Network
Equalization in TDMR System With LDPC Coding.* IEEE Transactions on
Magnetics, v55, n11, p6700605 (5 pp.), Nov. 2019

[2] Shaobing Wang, Jincai Chen, **Ke Luo**, Guoqiang Xie; Ping Lu; Weiming
Cheng. *Joint Four-Reader Array Equalization and Detection for a
Single Track in TDMR.* IEEE Transactions on Magnetics, v55, n12,
p3002006 (6 pp.), Dec. 2019

[3] Jincai Chen, Guoqiang Xie, **Ke Luo**, Shaobing Wang, Ping Lu, Yao
Wang. *Study of erase band and write performance for shingled
magnetic recording with FePt-based exchanged coupled composite
media.* IEEE Transactions on Magnetics, v54, n11, p7100306 (6 pp.),
Nov. 2018

[4] **Ke Luo**, Shaobing Wang, Guoqiang Xie, Jincai Chen, Ping Lu, Weiming
Cheng. *Read Channel Modeling and Neural Network Block Predictor for
TDMR.* 2018 Asia-Pacific Magnetic Recording Conference (APMRC), 2018

[5] Guoqiang Xie, **Ke Luo**, Shaobing Wang, Ping Lu, Weiming Cheng, Jincai
Chen. *Rounded Corner Effect on Write Performance for Shingled
Magnetic Recording System.* 2018 Asia-Pacific Magnetic Recording
Conference (APMRC), 2018

Related Projects

- 超高密度二维磁记录读磁头阵列及其记录系统关键技术研究. NSFC
No.61672246. (2017.1~2020.12)
- 比特图案介质的超高密度瓦记录关键技术研究. NSFC No.61272068.
(2013.1~2016.12)

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